



Q/HYRD

Q/HYRD 209.25.Z09-2022



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1.1

1.2

- | | | | | |
|------|------|--------|-----------|----------|
| (1) | 2015 | 1 | 1 | |
| (2) | 2008 | 6 | | |
| (3) | | | | 2016 1 1 |
| (4) | | 1997 | 3 1 | |
| (5) | | | 2016 11 7 | |
| (6) | | 2007 | 11 | |
| (7) | 2014 | 12 | 1 | |
| (8) | 2014 | 12 | 29 | 2014 119 |
| (9) | | [2013] | 101 | |
| (10) | 2011 | 4 | 18 . | 17 |

- (11) [2009]130
- (12) < > [2010]113
- (13) [2014]34
- (14) HJ/T169-2004
- (15) 2011 2
- (16) ([2012]77)
- (17) 6 2009
- (18) 493
- (19) 2016 88
- (20) 591
- (21) 2003 1
- (22) GB/T 29639-2013
- (23) GB18218-2009
- (24) GB50016-2014
- (25) ERG2000
- (26)
- (27)
- (28) 2015 7 1
- (29) 2010 7 1
- (30) 2006-2020
- (31) [2008]19
- (32)
- (33) (2017 9) [2008]36
- (34) [2008]49
- (35) [2010]50
- (36)
- (37) 2004
- (38) 2012

(39)

1.3

8

#6 7 8 9

1.4

4

1.5

1.5.1

.

1.5.2

1.5.3

500 2000

1.5.4

I II III

1.6

1

2

3

4

2.1

× ×

2.1-1

	#6	210MW	1998	1998	
	#7	210MW	2002	2002	
	#8	300MW	2007	2007	2009 12
	#9	300MW	2008	2008	[2009]323

2.1-2

	#6	#7	#8	#9
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		680t/h	680t/h	1025t/h	1025t/h
		210MW	210MW	300MW	300MW
		+ SCR	+ SCR	+ SCR	+ SCR
		-	-	-	-
		180	210		

2.1.1

2.1-3

2789

			m			
1			20		20	
2			300		730	
3			662		1256	
4			1000		2206	
5			2213			
6			2269		960	
7			2385		700	
8			2396		1800	
9			2541		877	
10			2789		5178	

ETQ 1

1.3 10⁶ / 460g/kwh

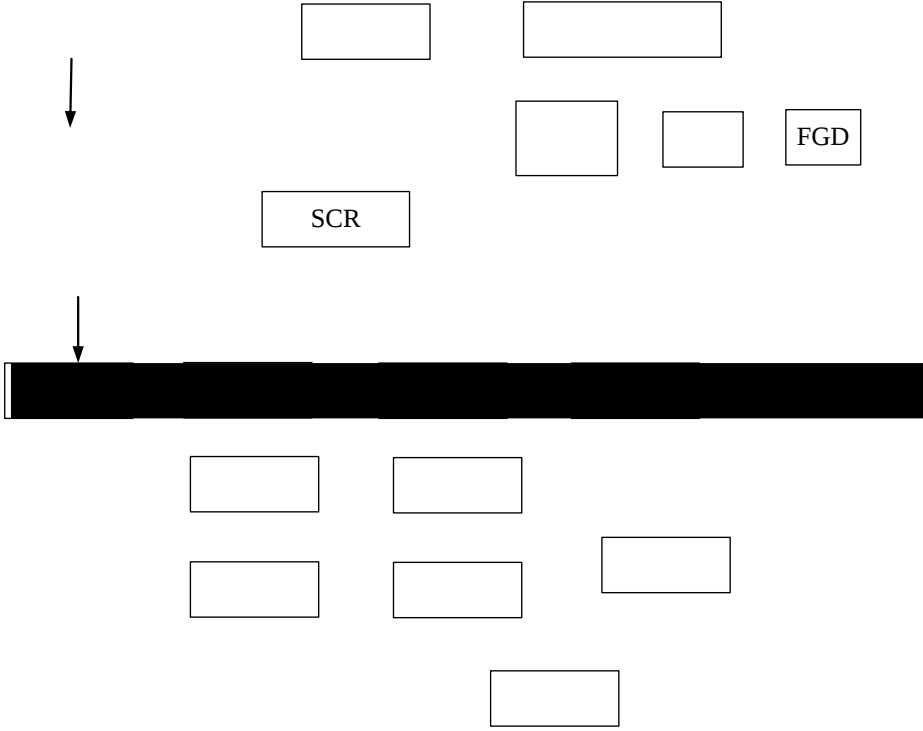
330g/kwh

2.1-4

%	%	%	MJ/Kg	MJ/Kg	%
11.12	19.35	24.99	21877.00	21060.67	0.75

2.1.2.2

#6 #7



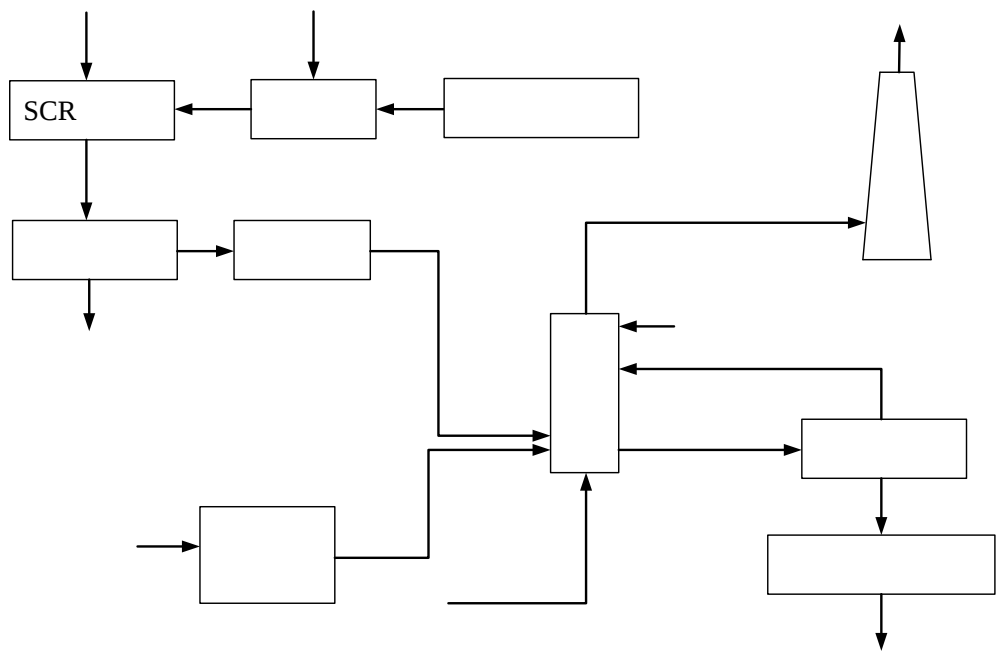
2.2-1 #6 #7

#6 #7 + SCR
85%

NO_x #6 7 SCR / SCR

NH₃ 290~400 NO NO₂ N₂
NH₃ N₂ NH₃ SCR
2 #6 7 SCR 2
#6 #7 90%

SO₂



2.2-2

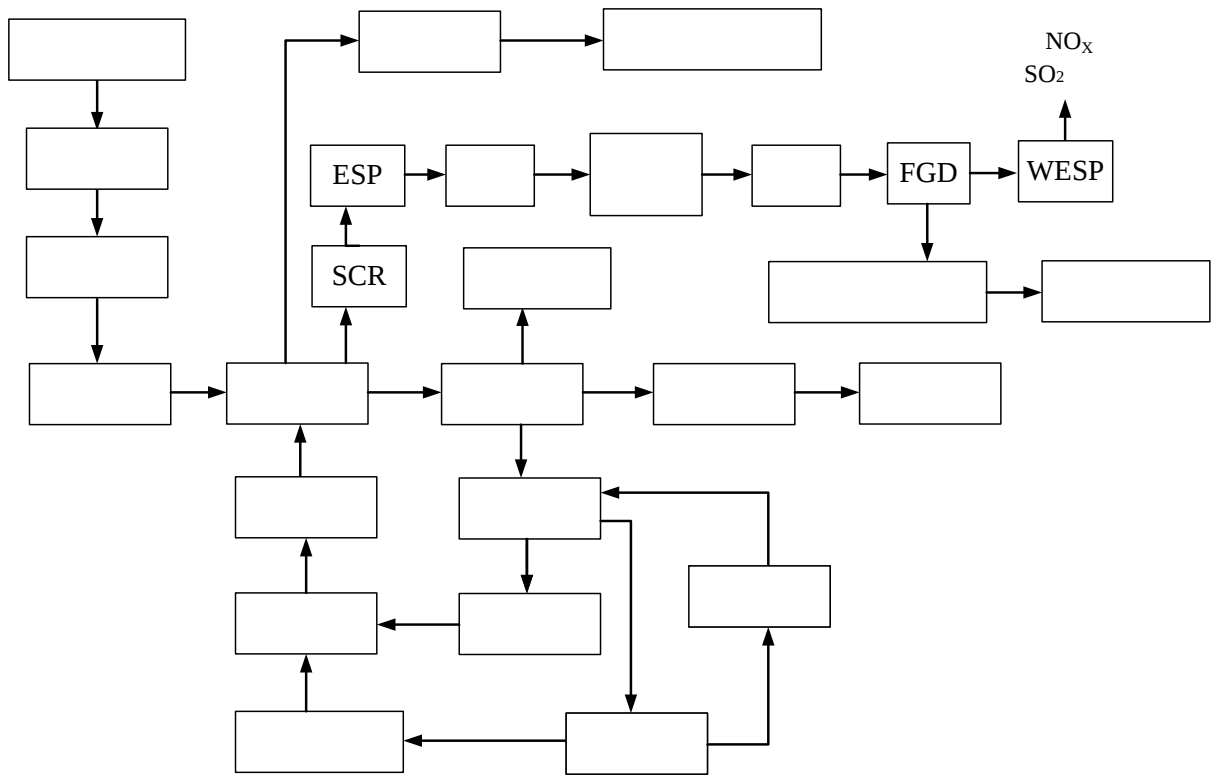
#6 #7

#6 #7

2.2-1

2.2-1 #6 #7		2×210MW	
	DG680/13.7-20	2	
#6	N210-12.7/535/535	1	
#7	N210-12.7/535/535	1	
	QFSN-210-2	2	
	ZGM-80G	10	
	DPG40	10	
	2008AB/1040	2	
	CMF6N4.2D152	4	

	AH-R198SW(PAF)	2	
	LAP8650/883	4	
	FAF17-9-1	2	
	ML-H1-R85/172(FDF)	2	
	SAF25-18-1	2	
	SAF25-16-2	2	
	7LD1N-7-A	2	



2.2-3

#8 #9

+SCR

85%

NO_x

SCR

/

SCR

#8 9

SCR

2

3

7790 12000 12600mm

3

3

#8 #9

+

+

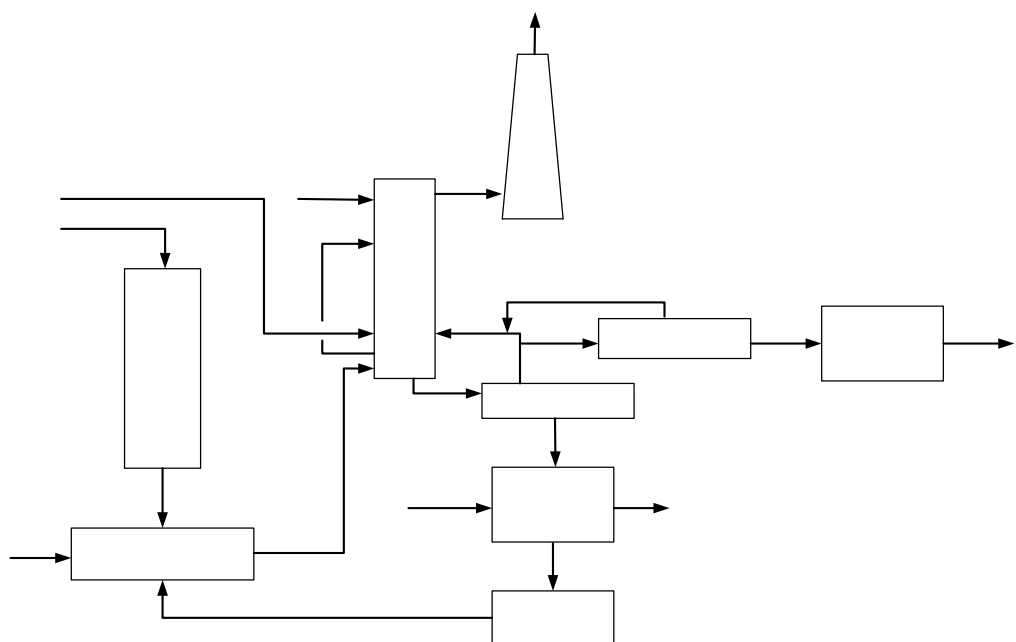
-

1.5%

98.7%

-

SO₂



2.2-4

#8 #9

2.2-2

2.2-2	#8	#9	2×300MW
DG1025/18.2- 4	2		
N300-16.7/537/537-8	2		
QFSN-300-2-20B	2		
ZGM95N	10		
DPG50	10		
2008AB/1135	4		
LAP/0320/883	4		

	LEK259-3*4-2-2	4	
	3HE-140	4	
	Y315M-4	4	
	9-19NO.5A	4	
	IK-525SL	24	
	2031G	-	

2.3

2.3.1

2.

- /

3. SO₂ NO_x

-

#6 #7

90%

50%

#8 #9

1.5%

98.7%

50%

#6 #7

+

SCR

#8 #9

+

SCR

2.3.2

1	Ca ²⁺	Mg ²⁺	Cl-	SO ₄ ²⁻	SO ₃ ²⁻	/
FGD				26.2t/h		

2

2.3.3

- 1
- 2

GB12348-90III

2.3.4

4						
8	8000m ³		6			/
						/

100% 4

2.4

2.4.1

2.4.1.1



50-300

45%

55%

433.6

382

2.4.1.2

3km

2.4.3

2.4-1

1		GB3838-2002
2		GB3095-2012
3		GB3096-2008 3
4		
5		
6		
7		
8		
9		
10		
11		

3.1

3.1-1

				H ₂
		2.1		2
	UN	1049	21001	CAS 1333-74-0
				0.07
		-259.2		-252.8
		506.62 kPa (4.7)		132.5
				11.40 MPa

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3.2

3.2.1.1

1

2

3

4

3			
4			/
5			
6			
7			
8			
9			
1			1
2			
3			
4			
1			
2			
3			

4			
5			GIS
6			
1			
2			
13			

3.2-2

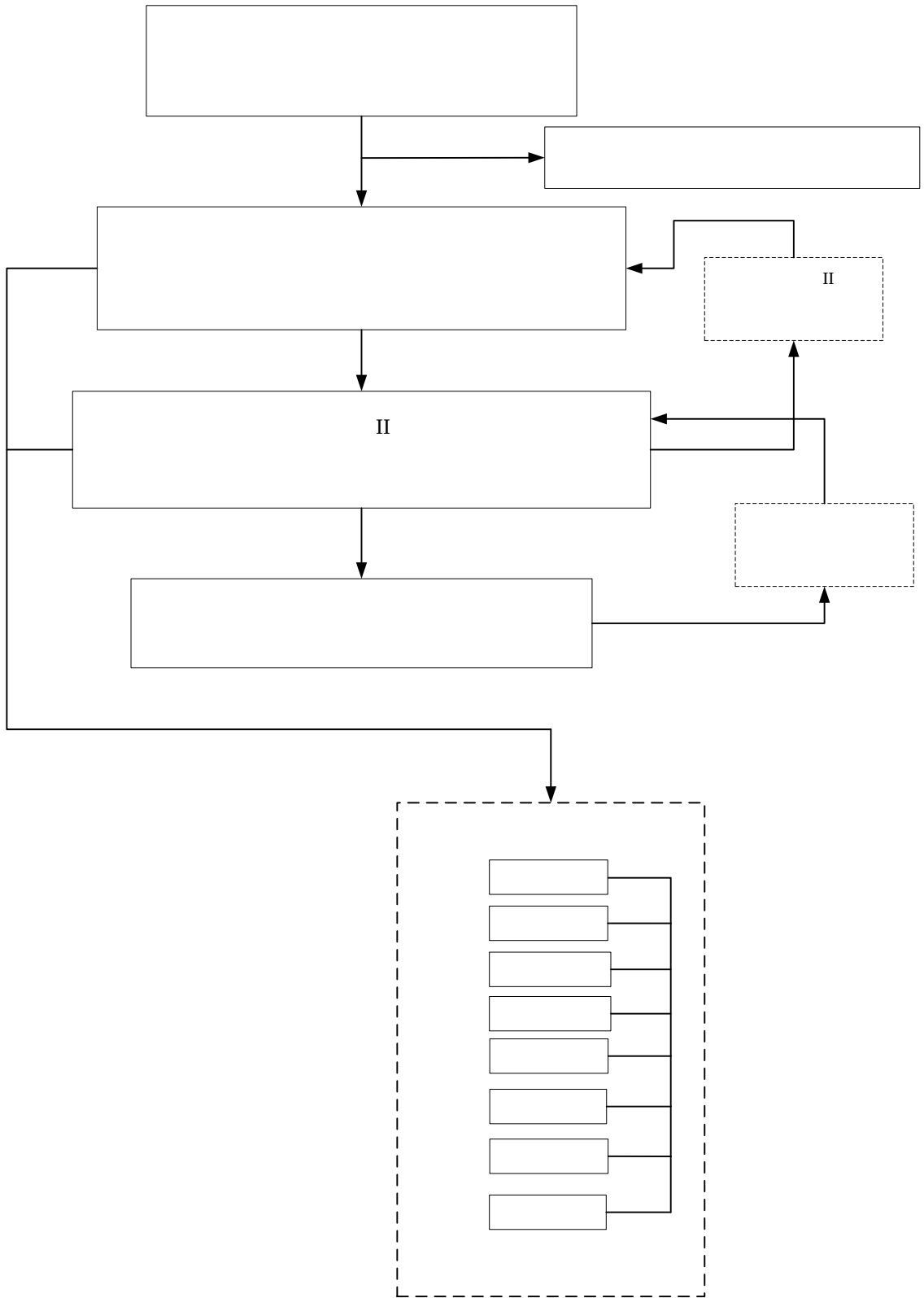
				/	/	
				/	/	
				/	/	
				/	/	
			/			
				/	/	
				/	/	
				/	/	
				/	/	
			/			

3.3

3.3-1

1			H ₂	
2			SO ₂ NO _x	
3			SO ₂ NO _x	
4			Ca ²⁺ Mg ²⁺ COD TN TP pH	
5				

4.1



4.1-1

4.2.1

4.2.1.1

4.2.1.2

1

2

3

4

5

6

4.2.2

4.2.2.1

4.2.2.2

1

2

3

4

5

6

7

8

9

4.2.3

4.2.3.1

1

4.2.3.2

1

2

3

4

5

6

a.

b.

c.

4.2.3.3

1

2

4.2.5

1

4.2.6

5.1

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.

24

5.2

- 1
- 2
- 3
- 4

5.2-1

	GB 50058-92

	4
	2m
	GB190-90

5.3

5.3.1

5.2-2

		1 2

5.3.2

5.3.3

6.1

24

020

7.1

7.1.1

7.1-1		
		1 2

7.1.2

1

2 /

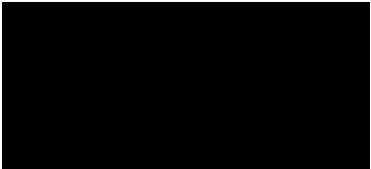
7.1.2.1

7.1.2.2

7.1-2 II

/		
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	II	

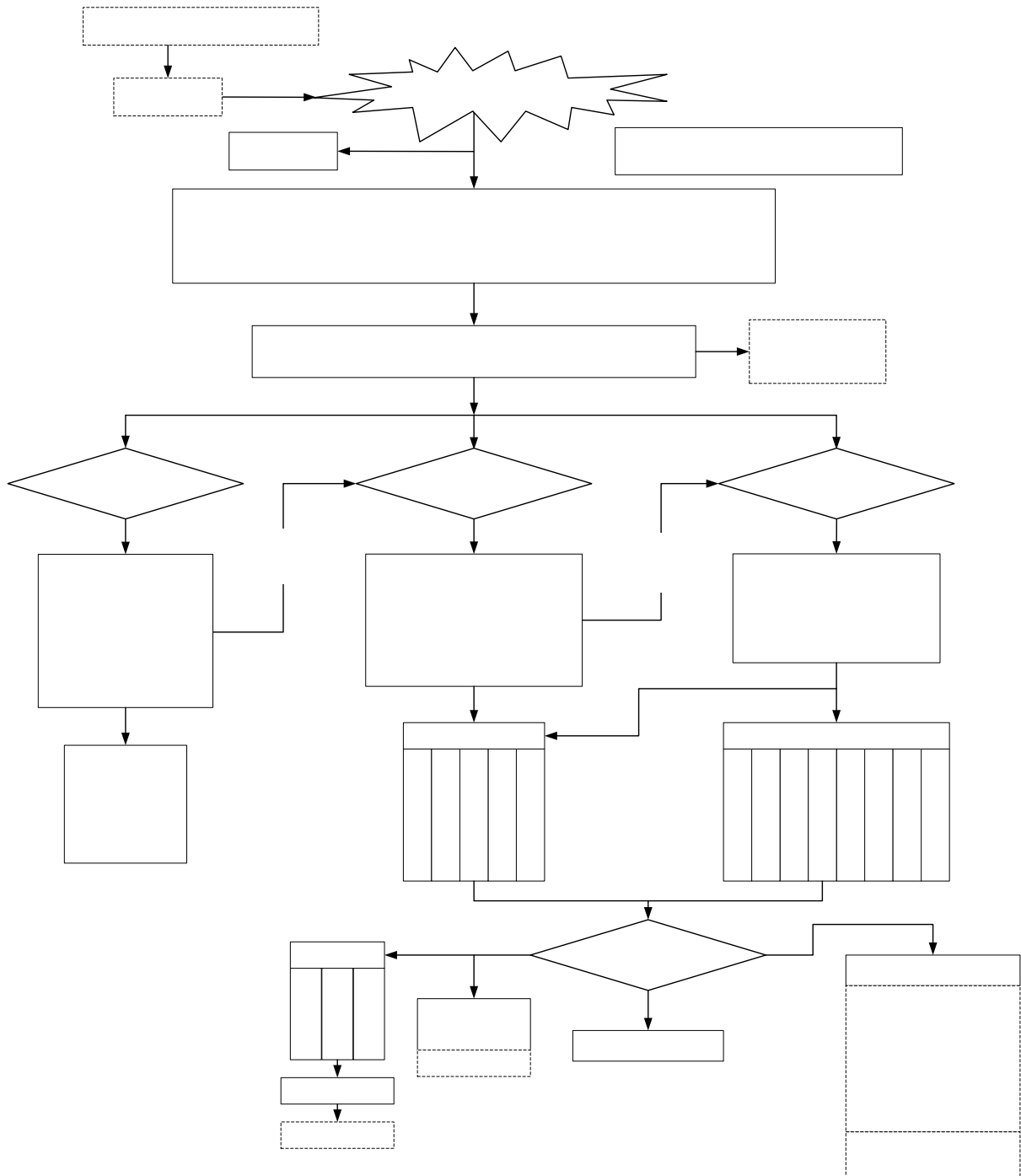


I

119 120

7.1-3 I

7.1-3 I		
/		
	I	
	119 120	



7.1-1

7.2

7.2.1

7.2.1.1

1

1211

2

119

3

4

5

7.2.1.2

1

3

7.2.1.3

4

7.2.1.4

5

7.2.1.5

7.2.1.6

1

2

BP

3

4

,

7.2.2

1

SO₂ NO_x

SO₂ NO_x

2

a)

b)

c)

d)

e)

120

f)

3

c)

d)

e)

f)

g)

h)

i)

j)

k)

4

a)

b)

c)

d)

5

a)

b)

c)

d)

7.3.1

7.3.2

1

2

1

3

7.3.3

020-82111855

020-83357844

020-82113386 82113730

020-82222999

020-82111733

7.3.4

7.3.5

1

2

3

7.3.6 .

pH pH

7.3.7

7.3.7.1

1

2

3

10cm

10m×10m

5

7.3.7.2

2

6

24

7.3-1

	PH			

	COD BOD ₅ SS	1 2		200 200	500	
	SO ₂ NO ₂	1 4	10	100m 200m 1km	2~50m 2~50m	4 4

7.3.8

8.1

1

2

3

4

5

6

8.2

1

2

3

8.3

8.4

1

2

3

4

5

6

7

8

9

8.5

1

2

3

4

8.6

10

1

2

3

4

5

6

7

8

9

10

9.1

9.1.1

- (1)
- (2)
- (3)
- (4)
- (5)

9.1.2

- (1)
- (2)
- (3)

- (4)

9.1.3

- (1)
- (2)
- (3)
- (4)
- (5)

(6)

(7)

9.1.4

(1)

(2)

(3) 2 3

(4)

(5)

15

(6)

(7)

(8)

9.1.5

1

9.1.6

9.2

9.2.1

9.2.2

9.2.3

1

9.2.4

11.1

1

2

11.2

2

3

11.3

a

b

11.4

11.5

11.6

1

1~2

2

3

110

4

11.7

120

11.8

11.9

1

2

3

4

5

6

7

12.1

1 emergency response plan

2 emergency preparedness

3 emergency response

4 emergency rescue

5 recovery

6

7

8

12.2

12.3

3

1

2

3

4

5

6

7

12.4

2022 3

12.5

			1363222439 020-82098819
			13622231512 020-82099449
			13660096680 020-82099449
			13650974256 020-82098283
			13828442110 020-82098813
			18819828098 020-82099592
			13602755382 020-82098809
			13710489896 020-82091167
			13922742726 020-82099560
			13502412084 020-82099782
			13802737300 020-82099578
			13710518948 020-82899582
			18198979723 020-82091745
			020-82098220 15014175476
			020-82099526

			15014175477
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			13825068493
			13500025818
			13556155505

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[illegible]

